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PTO/SB/21 (09-04)

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TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	Patent No. 6,872, 523 / App. No. 09/580,797
	Filing Date	May 30, 2000
	First Named Inventor	Peter C. Iwen
	Art Unit	1634
	Examiner Name	Jeanine Anne Goldberg
Total Number of Pages in This Submission	Attorney Docket Number	UNMC-IWEN

ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/ Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation <input type="checkbox"/> Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): 1 Sheet of Second Request for Certificate of Correction 4 Sheets of Form PTO/SB/44
Remarks In the event the that a fee is required in connection with this submission and not enclosed, the Commissioner is authorized to charge such fee to the account of the undersigned attorneys, Account No. 04-1406. A duplicate copy of this sheet is enclosed.		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	DANN, DORFMAN, HERRELL AND SKILLMAN - Cusotmer No. 000110		
Signature			
Printed name	Kathleen D. Rigaut, Ph.D., J.D.		
Date	August 29, 2006	Reg. No.	43,047

Certificate of Correction
SEP 11 2006

CERTIFICATE OF TRANSMISSION/MAILING			
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:			
Signature			
Typed or printed name	Jane C. Bogan	Date	August 29, 2006

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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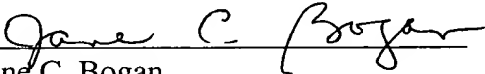
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: U.S. Patent No. 6,872,523 B1
Issued: March 29, 2005
To: The Board of Regents of the University of Nebraska
Title: MATERIALS AND METHODS FOR MOLECULAR DETECTION OF
CLINICALLY RELEVANT PATHOGENIC FUNGAL SPECIES

Certificate of Mailing Under 37 CFR §1.8(a)

I hereby certify that this correspondence is being deposited on August 29, 2006 with the United States Postal Service as first class mail in an envelope addressed to COMMISSIONER OF PATENTS, P.O. Box 1450, Alexandria, VA 22313-1450.

August 29, 2006
Date of Certificate


Jane C. Bogan

To the Hon. Commissioner for Patents

SECOND REQUEST FOR CERTIFICATE OF CORRECTION UNDER § 1.323

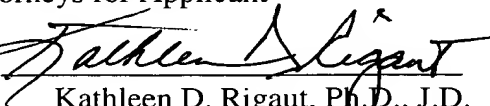
We are enclosing herewith one (1) sheet of Certificate of Correction Form PTO/SB/44 correcting typographical errors in the above-identified patent. Also submitted herewith is a copy of the three sheets of Form PTO/SB/44 originally submitted with Applicants' Request for a Certification of Correction. Applicants note that the Second Request is submitted to correct errors made by the Patent and Trademark Office in processing Applicants' first Request. Accordingly, the undersigned believes no fee is required to correct the Patent and Trademark Office's errors. In the event that a fee is required in connection with this submission and not enclosed, the Commissioner is authorized to charge such fee to the account of the undersigned attorneys, Account No. 04-1406. A duplicate copy of this sheet is enclosed.

The Examiner is respectfully requested to contact the below-named attorney if a clean copy of the specification is deemed necessary. It is respectfully requested that a Certificate of Correction be issued to correct the above-noted errors.

Respectfully submitted,

09/07/2006 MBIZUNES 00000025 041406 6872523
01 FC:1811 100.00 DA

DANN, DORFMAN, HERRELL & SKILLMAN
A Professional Corporation
Attorneys for Applicant

By 
Kathleen D. Rigaut, Ph.D., J.D.
PTO Registration No. 43,047

Telephone: (215) 563-4100

SEP 18 2006

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**Page 1 of 1

PATENT NO. : US 6,872,523

APPLICATION NO.: 09/580,797

ISSUE DATE : March 29, 2005

INVENTOR(S) : Peter C. Iwen, Steven H. Hinrichs, Travis Henry

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 10, line 28: Diego, CA. Competent INV F' One Shot cells were
Column 61, line 14: Aspergillus terreus (SEQ ID NO:4), Aspergillus niger

MAILING ADDRESS OF SENDER (Please do not use customer number below):

DANN, DORFMAN, HERRELL AND SKILLMAN, P.C.
1601 Market Street, Suite 2400
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UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 1 of 3

PATENT NO. : US 6,872,523

APPLICATION NO.: 09/580,797

ISSUE DATE : March 29, 2005

INVENTOR(S) : Peter C. Iwen, Steven H. Hinrichs, Travis Henry

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 1, line 52: with invasive disease. Early recognition of invasive fungal
Column 2, line 48: *Aspergillus fumigatus*, *Aspergillus flavus*, *Pseudallescheria*
Column 2, line 61: tained in the sample; b) adding two known oligonucleotide
Column 3, line 18: probes are used in step (d each being connection to (a) a
Column 3, line 24: *Penicillium* spp., having the nucleotide sequence of (SEQ
Column 3, line 63: is separated from sequences with which it is immediately
Column 3, line 64: contiguous (in the 5' and 3' directions) in the naturally
Column 4, line 42: homology is set forth below (Sambrook et al., Molecular
Column 5, line 38: or similar activity to yield a primer extension product. The
Column 5, line 44: plate to prime the synthesis of the desired extension
Column 5, line 45: product, that is, to be able to anneal with the desired template
Column 5, line 50: an exact complement of the desired template. For example,
Column 6, line 46: I. Preparation of Nucleic Acid Molecules and Primers
Column 6, line 64: Inc., Valencia, CA) and protocols for crude cell lysates as
Column 7, line 16: used according to methods known in the art, such as the
Column 7, line 17: polymerase chain reaction (PCR) method.
Column 7, line 22: In accordance with the present invention, nucleic acid
Column 7, line 40: cDNA, genomic DNA, RNA, and fragments thereof which
Column 8, line 11: fungi is DNA sequence analysis, however, the methodology
Column 8, line 27: either the pathogenic nucleic acid sequence, the
Column 8, line 40: e) using PCR involving one or more primer-based
Column 9, line 68: et al. were made to optimize the amplification procedure
Column 10, line 26: purified and ligated into the PCR 2.1 plasmid vector using

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UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 2 of 3

PATENT NO. : US 6,872,523

APPLICATION NO.: 09/580,797

ISSUE DATE : March 29, 2005

INVENTOR(S) : Peter C. Iwen, Steven H. Hinrichs, Travis Henry

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 10, line 28: Diego, CA. Competent INV F' One Shot cells were

Column 11, line 5: Sequence Analysis

Column 11, line 36: Sequence analysis of Aspergillus specimens was per-

Column 12, line 15 of text under table: that both single nucleotide differences and short lengths of

Column 15, line 60: Abbreviations: ATCC, American Type Culture Collection; IMI, Invasive Mold Infections (UMNC); a As compared to A. fumigatus ATCC 36607. b Sequence deposited into GenBank as part of this study. c Reference strain sequenced but not deposited into GenBank.

Column 16, line 11: infectious molds from clinical samples. The number of cases

Column 16, line 60: 1 and 2 regions (21). Gaskell et al. investigated sequence

Column 18, line 24: results available within 48 h, confirmed the value of this

Column 18, line 63: facilitates the species specific identification of fungi. Addi-

Column 29, line 1 of text following addendum 1: References

Column 61, line 1: What is claimed is:

Column 61, line 4: method comprising the following steps:

Column 61, line 5: a) extracting nucleic acid material from fungi contained in

Column 61, line 9: ers consisting of SEQ ID NO:1 and the other primer

Column 61, line 10: consisting of SEQ ID NO:2, said primers bracketing a

Column 61, line 14: Aspergillus terreus (SEQ ID NO:4), Aspergillus niger

Column 61, line 15: (SEQ ID NO:5), Aspergillus nigrulans (SEQ ID NO:6),

Column 61, line 20: a portion of the hypervariable region bracketed by said

Column 61, line 21: primers, said probes being selected from the group con-

Column 61, line 22: sisting of at least 15-25 contiguous nucleotides of SEQ

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APPLICATION NO.: 09/580,797

ISSUE DATE : March 29, 2005

INVENTOR(S) : Peter C. Iwen, Steven H. Hinrichs, Travis Henry

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 61, line 26: one of said fungal species from said group, to deter-
Column 61, line 27: mine whether said fungal species identified by each
Column 61, line 30: procedure in the polymerase chain reaction.
Column 61, line 39: different signal moiety or (b) a moiety which allows separ-
Column 61, line 40: ation of said probes.
Column 61, line 49: nucleic acid sequences of SEQ ID NOs: 3-8 to determine
Column 61, line 58: (SEQ ID NO: 5), *Aspergillus nidulans* (SEQ ID NO: 6),
Column 61, line 59: *Aspergillus fumigatus* (SEQ ID NO: 7), and *Aspergillus*
Column 61, line 60: *flavus* (SEQ ID NO: 8), said method comprising the step of:
Column 62, line 2: sample and amplifying said fungal nucleic acid with polymerase chain
Column 62, line 3: reaction using a primer set consisting of SEQ ID NO:
Column 62, line 7: c) comparing said restriction mapping patterns of said
Column 62, line 13: 7. A method for determining which *Aspergillus* species
Column 62, line 18: *flavus* (SEQ ID NO: 8), is present in a biological sample, said
Column 62, line 25: ID NOs: 3-8; and
Column 62, line 26: c) analyzing said permeabilized tissue sections with said
Column 62, line 30: 8. A universal primer set for amplification of a target
Column 62, line 34: GTATCCCTACCTGATCCGAGG (SEQ ID NO: 2).
Column 62, line 37: a) a universal primer set, said primer set consisting of the
Column 62, line 38: sequence of SEQ ID NO: 1 and SEQ ID NO: 2;
Column 62, line 44: d) means for contacting said released DNA with a primer
Column 62, line 53: apparatus for performing gel electrophoresis of said ampli-
Column 62, line 55: 12. A kit as claimed in claim 9, further comprising nucleic
Column 62, line 56: acids having sequences of SEQ ID NOs: 3-8.

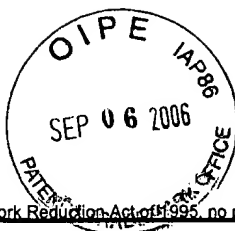
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**TRANSMITTAL
FORM**

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Patent No. 6,872, 523 / App. No. 09/580,797

Filing Date

May 30, 2000

First Named Inventor

Peter C. Iwen

Art Unit

1634

Examiner Name

Jeanine Anne Goldberg

Attorney Docket Number

UNMC-IWEN

ENCLOSURES (Check all that apply)

<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to TC
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Terminal Disclaimer	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Request for Refund	1 Sheet of Second Request for Certificate of Correction
<input type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> CD, Number of CD(s) _____	4 Sheets of Form PTO/SB/44
	<input type="checkbox"/> Landscape Table on CD	
<input type="checkbox"/> Certified Copy of Priority Document(s)	Remarks	
<input type="checkbox"/> Reply to Missing Parts/ Incomplete Application	In the event the that a fee is required in connection with this submission and not enclosed, the Commissioner is authorized to charge such fee to the account of the undersigned attorneys, Account No. 04-1406. A duplicate copy of this sheet is enclosed.	
<input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	DANN, DORFMAN, HERRELL AND SKILLMAN - Cusotmer No. 000110		
Signature			
Printed name	Kathleen D. Rigaut, Ph.D., J.D.		
Date	August 29, 2006	Reg. No.	43,047

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Signature			
Typed or printed name	Jane C. Bogan	Date	August 29, 2006

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